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(71) Applicant (for all designated States except US): **THE
TIMKEN COMPANY** [US/US]; 1835 DUEBER AV-
ENUE S.W., CANTON, OH 44706 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **DENNY, Wayne V.**
[US/US]; 3625 BALDWIN AVENUE, ALLIANCE, OH
44601 (US). **SMITH, Richard** [US/US]; 6913 SALERNO
STREET NW, CANTON, OH 44718 (US). **REHFUS,**
Kevin [US/US]; 7887 PORTVIEW AVENUE, NORTH
CANTON, OH 44720 (US).

(74) Agent: **BOESCHENSTEIN, Edward A.; POLSTER,**
LIEDER, WOODRUFF & LUCCHESI, L.C., 763 SOUTH
NEW BALLAS ROAD, ST. LOUIS, MO 63141 (US).

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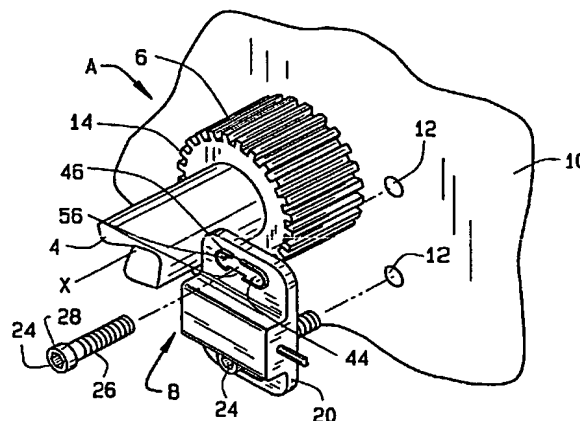
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(54) Title: SPEED SENSOR AND METHOD OF ATTACHING THE SAME



(57) **Abstract:** A speed sensor (B, C) produces a signal that reflects the angular velocity of a shaft (4) which rotates in a case (2) having a mounting surface (10), beyond which the shaft projects to provide a target (6), and threaded holes (12) which open out of the mounting surface. The speed sensor includes a housing (20) and a sensing element (22) which is embedded in the housing. The housing, which is formed from a deformable material, has slots (44, 60) which align with the threaded holes in the case, and receive screws (24, 66) which thread into the holes to secure the speed sensor to the case. The speed sensor is positioned such that the proper air gap exists between its sensing element and the target. The screws, which extend through the slots, produce indentations (56, 74) in the deformable material of the housing, and these indentations receive the screws, so that the position of the sensor is fixed. Thus, the sensor, if removed, may be reinstalled in the same location.

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